



Human IgE Monoclonal Antibody (Research Grade Omalizumab Biosimilar)

Recombinant Monoclonal Human IgG1 Clone #FB006

Catalog Number: BIO-020

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IgE in direct ELISA. This non-therapeutic antibody uses the same variable region sequences (VH, VL) as the therapeutic antibody Omalizumab. This product is for research use only.
Source	Recombinant Monoclonal Human IgG1 Clone #FB006
Purification	Protein A/G purified from CHO cell culture supernatant
Immunogen	Human IgE
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method
Formulation	0.2 µm filtered solution in PBS

APPLICATION

ELISA	This antibody functions as an ELISA detection antibody for the specific antigen in direct ELISA. Colorimetric detection is performed after addition of a suitable substrate.
-------	--

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/ml in sterile 1xPBS
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 to -70°C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">• 12 months from the date or receipt, -20 to -70°C as supplied.• 1 month, 2 to 8°C under sterile conditions

BACKGROUND

Omalizumab is a recombinant DNA-derived humanized monoclonal antibody directed against human immunoglobulin E (IgE). IgE promotes the release of inflammatory mediators from mast cells and basophils during allergic and inflammatory reactions. By binding to IgE and neutralizing it, omalizumab reduces free IgE levels and prevents IgE from binding to its receptors on immune cells. Omalizumab was first approved in the US in 2003 and in Europe in 2005. It is used to treat a range of immune and inflammatory conditions, including allergies, urticaria, and asthma.